

Figure 1

Figure 1 consists of two panels, A and B, showing histograms of the number of non-zero elements per row in sparse matrices.

Panel A shows the distribution for the matrix $A_{\text{LAPACK}}^{\text{LAPACK}}$. The x-axis is labeled "Number of non-zero elements per row" and ranges from 0 to 60. The y-axis is labeled "Frequency" and ranges from 0 to 10. The histogram shows a peak at 0 non-zero elements with a frequency of approximately 9, and a smaller peak at 1 non-zero element with a frequency of approximately 4. There are very few rows with more than 1 non-zero element.

Panel B shows the distribution for the matrix $A_{\text{LAPACK}}^{\text{MATLAB}}$. The x-axis is labeled "Number of non-zero elements per row" and ranges from 0 to 60. The y-axis is labeled "Frequency" and ranges from 0 to 10. The histogram shows a much wider distribution than Panel A. It has a peak at 0 non-zero elements with a frequency of approximately 8, but also significant frequencies at higher values: approximately 4 at 1, 3 at 2, 2 at 3, 1 at 4, 1 at 5, 1 at 6, 1 at 7, 1 at 8, 1 at 9, 1 at 10, 1 at 11, 1 at 12, 1 at 13, 1 at 14, 1 at 15, 1 at 16, 1 at 17, 1 at 18, 1 at 19, 1 at 20, 1 at 21, 1 at 22, 1 at 23, 1 at 24, 1 at 25, 1 at 26, 1 at 27, 1 at 28, 1 at 29, 1 at 30, 1 at 31, 1 at 32, 1 at 33, 1 at 34, 1 at 35, 1 at 36, 1 at 37, 1 at 38, 1 at 39, 1 at 40, 1 at 41, 1 at 42, 1 at 43, 1 at 44, 1 at 45, 1 at 46, 1 at 47, 1 at 48, 1 at 49, 1 at 50, 1 at 51, 1 at 52, 1 at 53, 1 at 54, 1 at 55, 1 at 56, 1 at 57, 1 at 58, 1 at 59, and 1 at 60.

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INTERFERENCE SEARCHED			
Class	Subclass	Date	Examiner
216	67,69, 79		
438	710, 714	2/26/2004	AWO
438	720		

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